LISTING OF CLAIMS

1. (Currently Amended) A stack-type capacitor, comprising:

a lower electrode on a diffusion barrier layer;

a dielectric layer formed on the lower electrode; and

an upper electrode formed on the dielectric layer,

wherein the lower electrode includes:

a first metal layer having a cylindrical shape and defining a cylindrical space; and

a second metal layer completely filling the cylindrical space defined by the first metal layer.

the second metal layer has a greater reactivity towards oxygen than the diffusion barrier

layer,

the diffusion barrier layer is a nitride layer, and the second metal layer is a nitride and aluminum layer.

- 2. (Cancelled).
- 3. (Currently Amended) The capacitor as claimed in claim $\underline{1}$ [[2]], wherein the nitride and aluminum layer is a titanium aluminum nitride layer or a tantalum aluminum nitride layer.
- 4. (Currently Amended) The capacitor as claimed in claim $\underline{1}$ [[2]], wherein the $\underline{\text{first}}$ metal layer upper electrode is a ruthenium layer.
- 5. (Currently Amended) A semiconductor memory device including a stack-type capacitor, the device comprising a transistor and a capacitor,

wherein the capacitor includes:

a lower electrode on a diffusion barrier layer;

a dielectric layer formed on the lower electrode; and

an upper electrode formed on the dielectric layer,

wherein the lower electrode includes:

a first metal layer having a cylindrical shape and defining a cylindrical space; and

a second metal layer completely filling the cylindrical space defined by the first metal layer,

the second metal layer has a greater reactivity towards oxygen than the diffusion barrier

layer,

the diffusion barrier layer is a nitride layer, and the second metal layer is a nitride and aluminum layer.

- 6. (Currently Amended). The device as claimed in claim 7 [[5]], wherein the transistor is electrically connected to the capacitor by the [[a]] conductive plug disposed under the diffusion barrier layer.
- 7. (Currently Amended) The device as claimed in claim $\underline{5}$ [[6]], wherein the [[a]] diffusion barrier layer is formed between the lower electrode and \underline{a} [[the]] conductive plug.
 - 8. (Cancelled).

- 9. (Currently Amended) The device as claimed in claim 5, wherein the first metal layer is a ruthenium layer, and the second metal layer is a nitride and aluminum layer.
- 10. (Currently Amended) The device as claimed in claim 5 [[9]], wherein the nitride and aluminum layer is a titanium aluminum nitride layer or a tantalum aluminum nitride layer.
- 11. (Original) The device as claimed in claim 9, wherein the upper electrode is a ruthenium layer.
 - 12-24. (Cancelled).
- 25. (New) The capacitor as claimed in claim 1, wherein the second metal layer includes aluminum.
- 26. (New) The capacitor as claimed in claim 25, wherein the diffusion barrier layer is substantially free of aluminum.
- 27. (New) The capacitor as claimed in claim 1, wherein: the diffusion barrier layer consists of a first set of compounds, and the second metal layer includes the first set of compounds and a material that is reactive towards oxygen.
- 28. (New) The capacitor as claimed in claim 27, wherein the material that is reactive towards oxygen includes aluminum.
- 29. (New) The capacitor as claimed in claim 3, wherein the diffusion barrier layer includes titanium and nitride, tungsten and nitride, and/or tantalum and nitride.
- 30. (New) The capacitor as claimed in claim 1, wherein the first metal layer is disposed proximate to and substantially equidistant to both the diffusion barrier layer and the second metal layer.
- 31. (New) The device as claimed in claim 5, wherein the second metal layer includes aluminum.
- 32. (New) The device as claimed in claim 31, wherein the diffusion barrier layer is substantially free of aluminum.
- 33. (New) The device as claimed in claim 5, wherein: the diffusion barrier layer consists of a first set of compounds, and the second metal layer includes the first set of compounds and a material that is reactive towards oxygen.
- 34. (New) The device as claimed in claim 33, wherein the material that is reactive towards oxygen includes aluminum.

- 35. (New) The device as claimed in claim 5, wherein the diffusion barrier layer includes titanium and nitride, tungsten and nitride, and/or tantalum and nitride.
- 36. (New) The device as claimed in claim 5, wherein the first metal layer is disposed proximate to and substantially equidistant to both the diffusion barrier layer and the second metal layer.